

AMENDMENT AND RESPONSE

Serial Number: 08/012,269

Filing Date: February 1, 1993

Title: MURINE 4-1BB GENE (as amended)

Page 2

Dkt: 740.009US1

- a) contacting nucleic acid obtained from a biological sample with a probe comprising at least a portion of the cDNA of claim 1 or the DNA of claim 22 so as to form binary complexes between the probe and the nucleic acid; and
- b) detecting or determining complex formation.

24. (New) The method of claim 23 wherein the sample is a lymphoid sample.

25. (New) The method of claim 23 wherein the sample is a non-lymphoid sample.

26. (New) The method of claim 23 wherein the sample is a physiological sample.

27. (New) The method of claim 23 wherein the sample is a tissue sample.

28. (New) An isolated and purified DNA molecule comprising a DNA sequence encoding a soluble 4-1BB polypeptide comprising the extracellular domain of the amino acid sequence shown in ~~figures 2a and 2b~~ <sup>SEQ ID NO: 2</sup>.

29. (New) An isolated and purified DNA molecule comprising a DNA sequence encoding a soluble 4-1BB polypeptide comprising the extracellular domain of the amino acid sequence shown in ~~figures 2a and 2b~~ <sup>in SEQ ID NO: 2</sup> operably linked to a polypeptide that is not 4-1BB and which is located C-terminal to the soluble 4-1BB polypeptide.

30. (New) The DNA molecule of claim 28 or 29 which further comprises regulatory sequences suitable for expression of the DNA molecule in a host cell, which regulatory sequences are operably linked to the DNA molecule.